

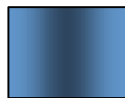
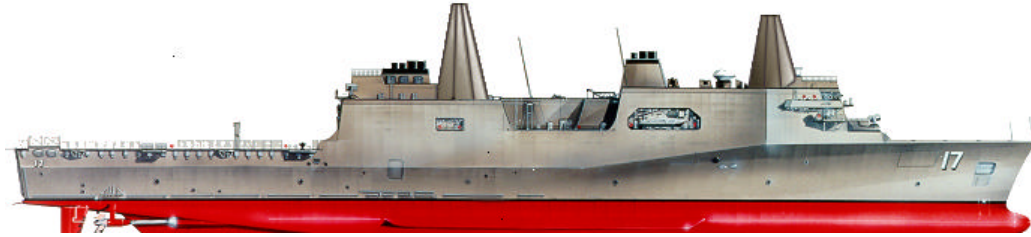
LPD 17 CLASS LIFE CYCLE ENGINEERING AND SUPPORT MANAGEMENT PLAN EXECUTIVE SUMMARY



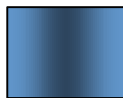
**PREPARED BY LPD 17 LIFE CYCLE SUPPORT
INTEGRATED PRODUCT TEAM**



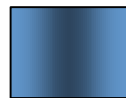
LPD 17 Class Life Cycle Engineering and Support Management Plan



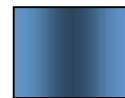
**WARFARE
CAPABLE**



**MISSION
FLEXIBLE**



**TECHNICALLY
ADAPTABLE**



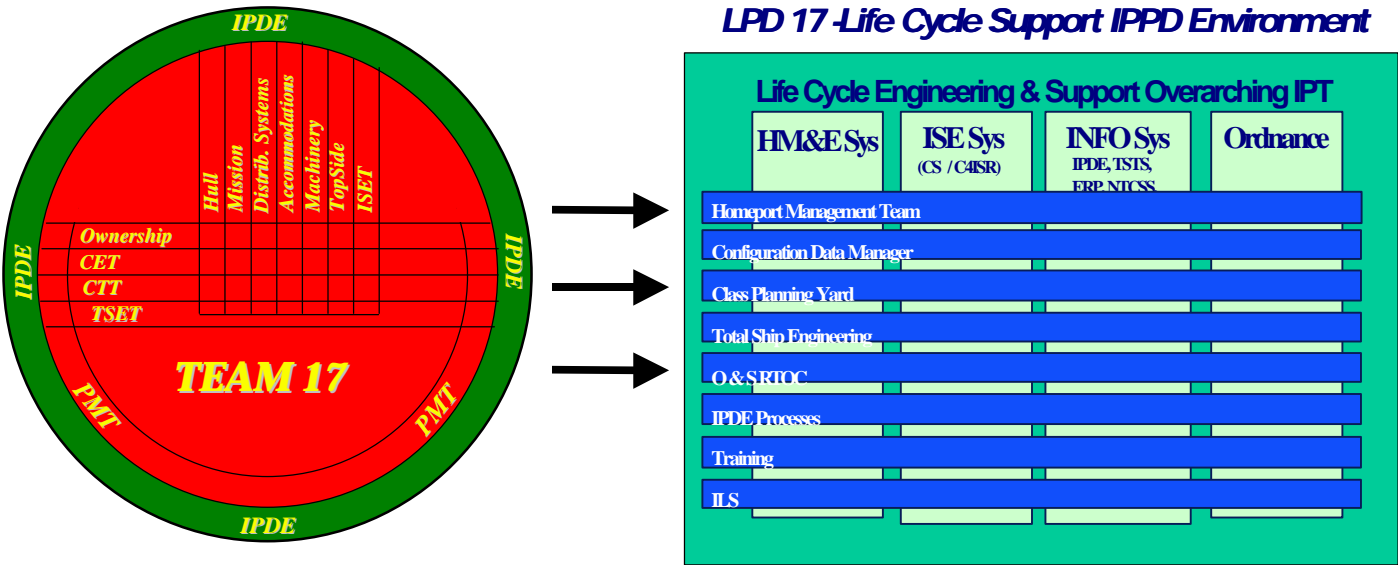
**AFFORDABLY
SUPPORTABLE**

LPD 17 FUNDAMENTAL PRINCIPLES

The integrated Government and Alliance Partnership will build on today's successful ship support practices to enhance Government oversight, preserve robust competition, and ensure continued innovation and cost reduction throughout the LPD 17 Class Life Cycle.

Key Features	Benefit/Rationale
<ul style="list-style-type: none">• World-class support approach built on AEGIS successes• Total Ship Systems Engineering approach continued from design into Life Cycle• Best practices of both Industry and Government applied and integrated; technical authority preserved• Integrated Product Data Environment (IPDE) is the foundation for efficiency• Competition and local waterfront control are supported	<ul style="list-style-type: none">• LPD 17 provides opportunity for a step between current practices and DD21• Complexity and criticality of LPD 17 system of systems best served by an efficient, integrated support approach• Best value balance of providers with continuity of support for legacy systems and FSC support for new/unique items• Web-enabled reliable data source and tool set enable process improvements• Competition spurs innovation and savings; responsive to Fleet needs

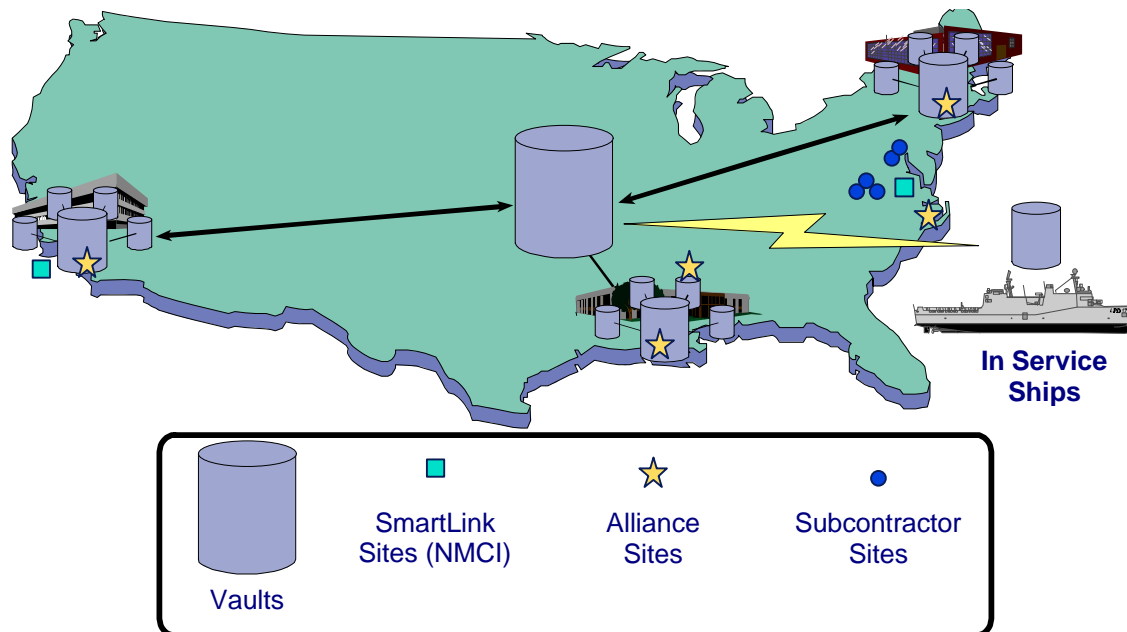
Management Approach



An integrated Government-Industry Partnership will manage Life Cycle Engineering and Support for the LPD 17 Class as a Full Service Partnership, working through world-class providers selected from both the public and private sectors to deliver best-value solutions.

Key Features	Benefit/Rationale
<ul style="list-style-type: none">Integrated Government and Alliance Team to manage the programAlliance partners provide comprehensive management and technical expertise in one structureGovernment oversight and technical authority are preserved and supportedRisk management is practiced throughout the LCE&S approachIntegrated management of cost, schedule, and risk based on comprehensive program metrics	<ul style="list-style-type: none">Reduced decision cycle times and reduced management layersExpertise established during design and construction immediately and continuously availableEssential governmental roles are supported with information and accessIntelligent management of risk reduces cost and encourages innovationBalanced scorecard approach contributes to optimized decision-making and best value for the Navy

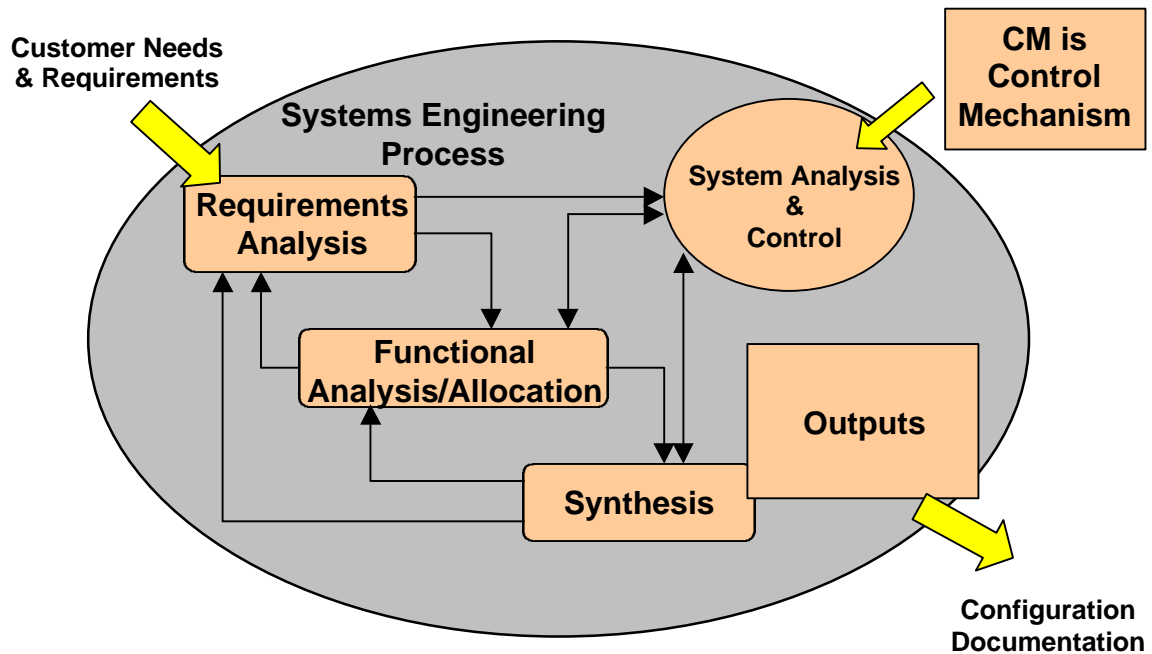
Information Management



The Integrated Product Data Environment (IPDE) provides a robust, comprehensive information management framework, enabling process improvements and world-wide, web-enabled connectivity.

Key Features	Benefit/Rationale
<ul style="list-style-type: none"> Product-centered data management based on 3-D CAD models of ship Open systems design and system scalability Wide area network, web connectivity, and ship-shore interface Comprehensive configuration management of data Workflow functionality enables concurrent processes 	<ul style="list-style-type: none"> CAD models created during design support multiple uses in life cycle IPDE infrastructure is readily upgraded and expandable to meet program needs Multiple means of access and connectivity ensure global coverage and responsiveness Single integrated source of configuration data improves all support processes Change processing is accelerated and integrated through the use of workflow features of IPDE

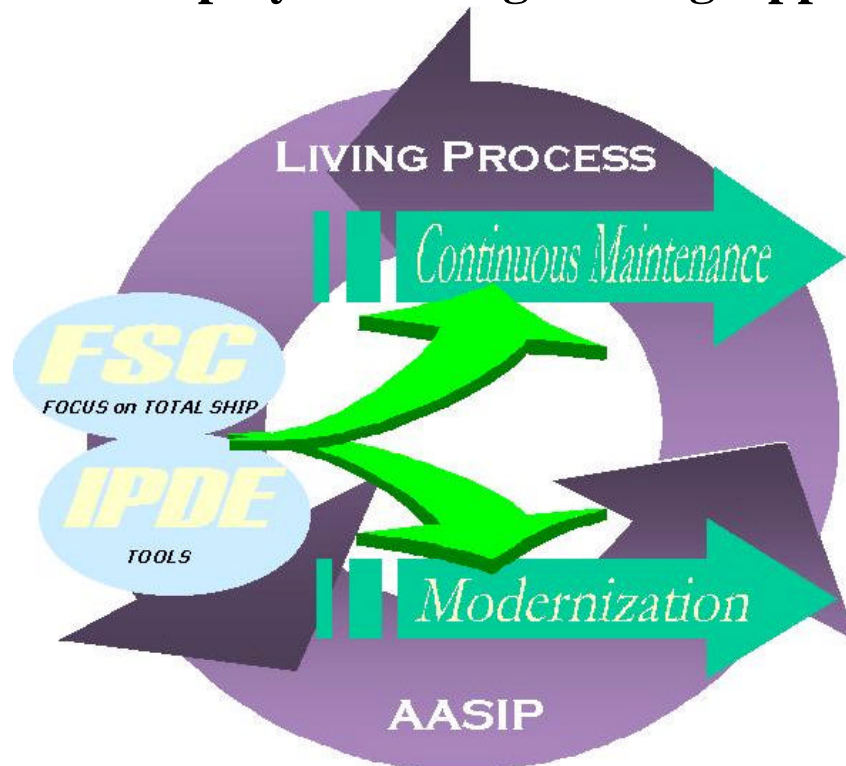
Configuration Management



Supported by the connectivity and integrated data provided in the IPDE, LPD 17 Class Configuration Management will extend the systems engineering approach to efficiently address total ship configuration and integrate with Navy management systems.

Key Features	Benefit/Rationale
<ul style="list-style-type: none"> Comprehensive approach to Configuration Management with centralized responsibility Product Model centered approach to CM based in IPDE Clear delineation of decision authority enforced with IPDE rules Defined integration and interface with Navy management systems Extension of rigorous Systems Engineering approach into change management 	<ul style="list-style-type: none"> Consolidation of multiple sources and processes for CM into clear chain of accountability Management of product model and related data vice multiple legacy paper products Technical authority is preserved and data integrity improved LPD 17 will integrate with management systems to ensure consistency Essential characteristics and systems integration are preserved and enhanced through integrated management

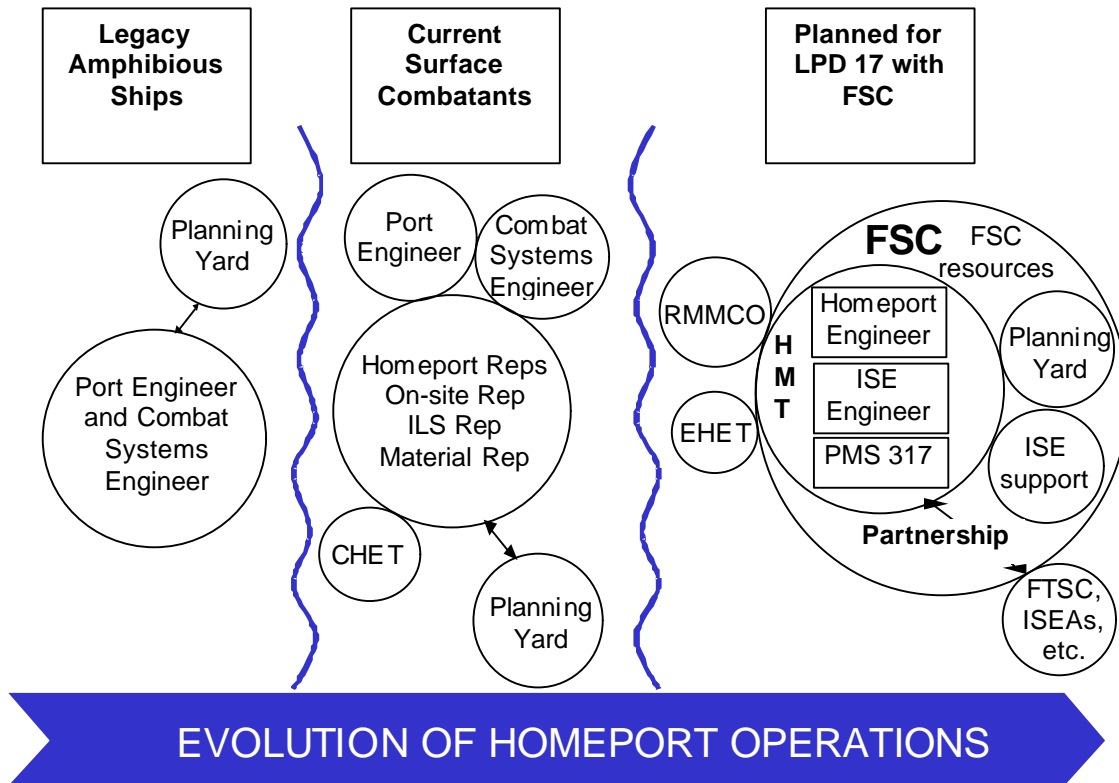
Total Ship Systems Engineering Approach



Total Ship Systems Engineering integrates Maintenance and Modernization planning at the ship system level, ensuring the continued effectiveness, affordability, and interoperability of the San Antonio Class throughout the life cycle.

Key Features	Benefit/Rationale
<ul style="list-style-type: none"> Integrated Maintenance and Modernization planning for optimized availability timing and duration Continuous maintenance planning using condition based maintenance approach Integration of Technology Evolution Management, COTS and obsolescence monitoring, and baseline improvements Integrated Ship Electronics managed by FSC as ISEA Operating Cycle improvements managed in support of Fleets/TYCOMs 	<ul style="list-style-type: none"> 30% to 50% reduction in availability durations and dramatically lower growth and rework Reduced downtime and cost; more effective use of availability time Highly integrated systems are actively managed within Amphibious Assault Ship Improvement Plan (AASIP) framework Continuity of Raytheon technical excellence into support of systems Notional OPCYCLE will be implemented in support of Fleet and TYCOM needs

Homeport Management

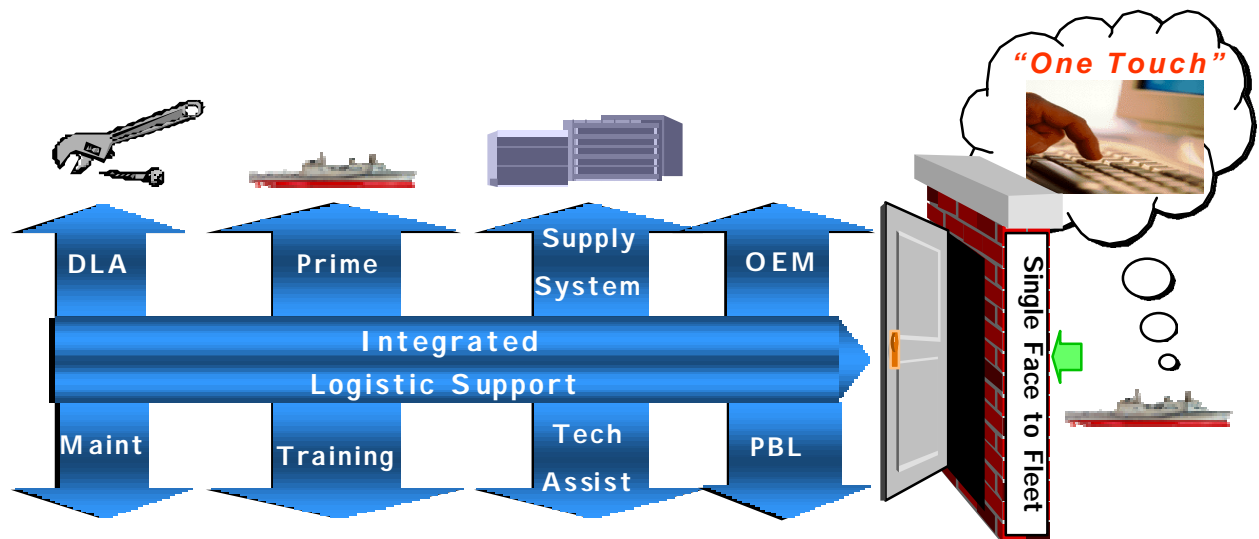


The LPD 17 Homeport Management Team brings the full range of FSC and Government resources to the waterfront in support of ongoing and emergent requirements by building on existing capabilities and partnering with key stakeholders.

Key Features	Benefit/Rationale
<ul style="list-style-type: none"> Integrated, agile team at the waterfront brings the program to the owners Functions of current Planning Yard representatives, Port Engineer, and Combat Systems Engineers consolidated within HMT Local authority and competition for maintenance execution preserved Interfaces and partnerships with key support organizations identified IPDE provides virtual presence of complete design team 	<ul style="list-style-type: none"> Responsiveness to Fleets, TYCOMs, and COs backed by depth of FSC Streamlining of organizational interfaces; integration of liaison with technical support provides fast, flexible response to waterfront needs Flexibility and continued innovation and cost effectiveness Integration with existing support systems leads to balanced solutions IPDE functionality enables distributed design and support development

Integrated Logistic Support

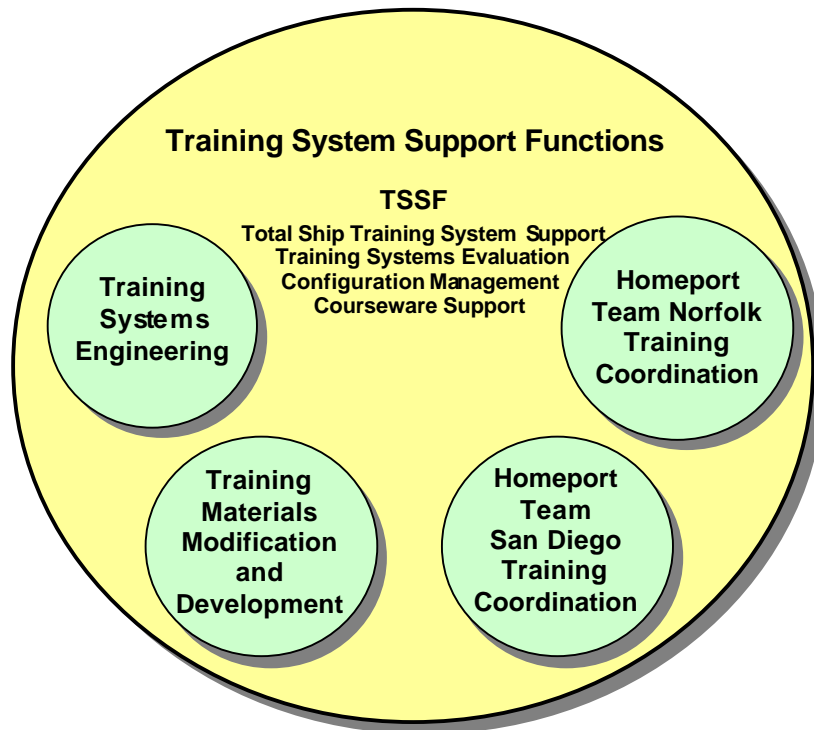
Integrated Logistic Support Managing Relationships & Outcomes



LPD 17's design for supportability, coupled with the TEAM 17 approach to Integrated Logistic Support, provides a single integrated support framework, enabling warfighters to focus on mission and readiness.

Key Features	Benefit/Rationale
<ul style="list-style-type: none"> Balanced mix of legacy and alternative support elements Integration of supporting data environments via IPDE Logistic elements fully integrated into Total Ship Systems Engineering approach Maintenance and Modernization Planning integrated with ILS IPDE based ILS system provides extensive suite of metrics 	<ul style="list-style-type: none"> Best value driven decision process results in optimal cost and performance Single authoritative source or access to ship support data eliminates inconsistencies Continuation of Concurrent Engineering Supportability Analysis (CESA) into the life cycle extends program savings Maintenance and modernization activities will be logistically supported Performance measurement will be based on meaningful outcomes metrics

Training



Life Cycle Support of the unique LPD 17 Training environment will receive focused management through an integrated Government-Industry Training System Support Activity within the LCE&S structure.

Key Features	Benefit/Rationale
<ul style="list-style-type: none"> Through life support of the LPD 17 Total Ship Training System (TSTS) Active Navy involvement and oversight of curriculum management Training configuration management tightly coupled with total CM approach Training System Support integrated with Total Ship Systems Engineering for all maintenance and modernization TSTS, IPDE, and FSC training organizations provide depth of support to shipboard Training Department 	<ul style="list-style-type: none"> Shipboard training efficiency and crew proficiency sustained via TSTS Training content and improvements are driven by warfighter needs Accuracy and authority of training materials maintained Integration of human systems implications of maintenance and modernization Well coordinated shore support allows shipboard trainers to focus on execution, maximizing training time

